**How to Write a Formal Practical Report**

Aim:

* The aim is what you want to find or accomplish (1-2 sentences)
* Eg, The aim of this experiment is to investigate the firing mechanism of the pellet gun to improve the range, by means of altering the distance between the golf tees, and keeping the pullback constant.

Hypothesis:

* What you think will happen (1-3 sentences)
* A good hypothesis is written in terms of the independent and dependent variables.
* Eg, **If** [the independent variable is changed] **then** [this-dependent variable] will happen.
* This statement does not need to be correct, it is just what you think will happen.
* Eg, **If** the distance between the golf tees is increased, **then** the range of the pellet will increase.

Variables:

* Independent variable: Distance between the gold tees. (the thing that you change)
* Dependent variable: Range of the pellet fired. (the thing that you measure, or is affected by the change in the independent variable.)
* Constants: Pullback, Height fired, type/weight of pellet. (things that remain the same)

Discussion:

* The discussion is where you discuss your thoughts and findings on the experiments.
* Answer any questions.
* Discuss any problems or errors, or things you would do differently to improve results.
* Eg, The results showed that the further apart the golf tees when the pellet was fired, the farther the pellets range. This possibly is because the further apart the golf tees are, then the tighter the elastic band is. This tightness in the elastic band is the direct cause that stores energy and affects the pellets range. Therefore to further continue the experiment, the distance of the pullback could be increased, this would tighten the elastic band upon release, and shoot the pellet further. It was also observed that upon firing, the pellet crashed into the ground quite hard, this would lead to a further investigation of how the firing height affects the range of the pellet.

Conclusion:

* The conclusion sums up the report, it directly addresses the aim and hypothesis of the experiment.
* Did you find what you wanted to find?
* Eg, To conclude this experiment showed that the increased distance between the golf tees, increases the range of the pellet, this result supports the hypothesis.

REMEMBER: NEVER WRITE IN FIRST PERSON! “I” “WE” “YOU”